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AUTHORITY

ATD ltr, 2 Dec 1965

S/188/62/000/006/008/016
B191/B102

AUTHOR: Myunkhov, L.

TITLE: The giant resonance in heavy strongly deformed nuclei

PERIODICAL: Moscow. Universitet. Vestnik. Seriya III. Fizika, astronomiya, no. 6, 1962, 37-44

TEXT: The position and width of dipole peaks in photonuclear reactions of strongly deformed nuclei of the rare earths are calculated in second-quantization approximation. Considering the residual interaction between the nucleons, the energy of the dipole peaks can be determined from a system of equations, of which one approximate solution is given. (Interaction terms between various particles are considered only). Strongly deformed axisymmetric nuclei are calculated from the solutions, assuming the values for the last oscillator shell of the protons and neutrons were assumed to be respectively N = 4 and N = 5. The case of a nonaxisymmetric nucleus is dealt with also. The possibility of a splitting of the second peak in consequence of deviation from the axial symmetry is considered. Calculations with real nucleon configurations are in preparation.

Card 1/2

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The giant resonance in heavy...

ASSOCIATION: NIIYaF

SUBMITTED: March 27, 1962

Card 2/2